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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/838,376 04/19/2001		Steven Edward Atkin	AUS920010278US1	9255
45993	7590 10/05/2004		EXAMINER	
IBM CORPORATION (RHF) C/O ROBERT H. FRANTZ			NGUYEN, MAIKHANH	
P. O. BOX 23324 OKLAHOMA CITY, OK 73123			ART UNIT	PAPER NUMBER
			2176	

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)	- Ay
	Application No.		XV G
Office Assis - Comment	09/838,376	ATKIN, STEVEN EDV	NARD
Office Action Summary	Examiner	Art Unit	
	Maikhanh Nguyen	2176	
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet wit	h the correspondence addres	ss
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicat - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	CFR 1.136(a). In no event, however, may a relation. s, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MONT statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this commu.	unication.
Status			
1) Responsive to communication(s) filed on	19 April 2001.		,
	This action is non-final.		
3) Since this application is in condition for a		rs, prosecution as to the me	erits is
closed in accordance with the practice ur			
Disposition of Claims			
4) Claim(s) 1-24 is/are pending in the application 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction is	thdrawn from consideration.		
Application Papers			
9) The specification is objected to by the Exa			
10) The drawing(s) filed on is/are: a)			
Applicant may not request that any objection t			
Replacement drawing sheet(s) including the c			
11) The oath or declaration is objected to by t	ne examiner. Note the attached t	Office Action of form PTO-1	52.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in Appet priority documents have been received in Polyments have been received (PCT Rule 17.2(a)).	olication No eceived in this National Stag	ge
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Sur		
 Notice of Draftsperson's Patent Drawing Review (PTO-94 Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date <u>04/19/2000</u>. 	.8) Paper No(s)/l SB/08) 5) Notice of Info 6) Other:	Mail Date nmal Patent Application (PTO-152))

Page 2

Application/Control Number: 09/838,376

Art Unit: 2176

DETAILED ACTION

- 1. This action is responsive to the following communications: original application filed 04/19/2001.
- 2. Claims 1-24 are currently pending in this application. Claims 1, 9, and 17 are independent claims.

Specification

3. Applicants are required to amend pages 1-2 of the specification to include the serial numbers of related applications and their current status. Appropriate correction is required.

Claim Objections

4. Claim 1 is objected to because of the following informalities: "a Unicode character streams" (line 1) should read "a Unicode character stream". Appropriate correction is required.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Art Unit: 2176

Claims 1-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The following phrases lack antecedent basis:

- -"the character stream" (claim 1, lines 2-3; and claim 17, lines 2-3); and
- -" the tag identifier" (claims 1, 9, and 17, lines 4-5)

Dependent claims 2-8, 10-16, and 18-24 are rejected for fully incorporating the deficiencies of their base claims.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 6, 8-11, 14, 16-19, 22, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Durst et al.**, "Unicode in XML and other Markup Languages", cited by Applicant's IDS in view of **Applicant Admitted Prior Art** (APA).

As to independent claim 1, Durst teaches a method for providing metadata within a Unicode character streams the metadata describing information necessary for accurate display rendering of the character stream, the method comprising the steps of:

Art Unit: 2176

- inserting one or more tags into a Unicode character stream by spelling the tag identifier (Section 4.1 and table 4.1; pages 11-12).
- inserting a tag separator between multiple tags if more than one tag has been inserted, so as to create a modified character stream having separator-delimited metadata embedded within it (Section 3.3; page 7).

Durst does teach tags, but Durst does not specially teach "metatag".

APA teaches metatag (metadata 'tagging'; page 14, lines 1-3).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to include the feature from APA in the system of Durst because it would provided the capability for facilitating the implementation of Unicode in the markup language.

As to dependent claim 2, Durst teaches inserting one or more parameters following at least one tag with which it is associated; and inserting a parameter separator between multiple parameters associated with a tag if more than one parameter has been inserted so as to create a separator-delimited parameter list following a tag (Section 3.3, page 7).

As to dependent claim 3, Durst teaches inserting an element tag describes zero width joiner and zero width non joiner characters, such that multiple characters may be grouped together for treatment as a single grapheme or text element (e.g., Zero-width Joiners 'ZWJ and ZWNJ'; table 3.2).

As to dependent claim 6, Durst teaches replacing hyper text markup language bidirectional output tags with the direction tags and directional parameters (e.g., editing bidirectional HTML; page 8 and Replacement Markup table).

Art Unit: 2176

As to dependent claim 8, Durst teaches inserting a math tag and a language tag such that portions of the character stream which represent mathematical expressions are delimited from portions of the character stream which represent language (page 14).

As to independent claim 9, it is directed a computer readable medium for implementing the method of claim 1, and is similarly rejected under the same rationale.

As to dependent claims 10 and 18, they include the same limitations as in claim 2, and is similarly rejected under the same rationale.

As to dependent claims 11 and 19, they include the same limitations as in claim 3, and are similarly rejected under the same rationale.

As to dependent claims 14 and 22, they include the same limitations as in claim 6, and are similarly rejected under the same rationale.

As to dependent claims 16 and 24, they include the same limitations as in claim 8, and are similarly rejected under the same rationale.

As to independent claim 17, it is directed a system for performing the method of claim 1, and is similarly rejected under the same rationale.

7. Claims 4-5, 7, 12-13, 15, 20-21, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Durst et al.**, in view of **Applicant Admitted Prior Art (APA)** as applied to claims 1-2, 9-10, and 17-19 above and further in view of **Davis** "Unicode Standard Annex #9 – The Bidirectional Algogithm", published 03/2001.

As to dependent claim 4, the combination of Durst and APA does not specially teach "inserting a right-to-left or a left-to-right directional parameter following a paragraph metatag

Art Unit: 2176

which indicate a direction in which the character stream following the paragraph metatag and parameter is to be rendered for display."

Durst teaches inserting a right-to-left or a left-to-right directional parameter following a paragraph tag which indicate a direction in which the character stream following the paragraph tag and parameter is to be rendered for display (e.g. the right-to-left and left-to-right marks; page 4, Direction Formatting Codes).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to include the feature from Davis in the system of Durst as modified by APA because it would provided the capability for facilitating the implementation of Unicode in the markup language.

As to dependent claim 5, the combination of Durst and APA does not specially teach "inserting a right-to-left or a left-to-right directional parameter following a direction metatag which indicate a direction in which the character stream following the direction metatag and parameter is to be rendered for display."

Davis teaches inserting a right-to-left or a left-to-right directional parameter following a direction tag which indicate a direction in which the character stream following the direction tag and parameter is to be rendered for display (e.g., the right-to-left and left-to-right marks; page 4, Direction Formatting Codes).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to include the feature from Davis in the system of Durst as modified by APA because it would provided the capability for facilitating the implementation of Unicode in the markup language.

Art Unit: 2176

As to dependent claim 7, the combination of Durst and APA does not specially teach "inserting a mirror metatag which indicates the characters following the mirror metatag is to be presented in mirror fashion."

Davis teaches inserting a mirror metatag which indicates the characters following the mirror tag is to be presented in mirror fashion (section Mirroring; page 2 - page 3).

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to include the feature from Davis in the system of Durst as modified by APA because it would provided the capability for ensuring the correct character code is used to express the intended semantic of the character.

As to dependent claims 12-13 and 20-21, they include the same limitations as in claims 4-5, and are similarly rejected under the same rationale.

As to dependent claims 15 and 23, they include the same limitations as in claim 7, and are similarly rejected under the same rationale.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Daniels et al.	U.S Patent No. 5,784,069	issued: Jul. 21, 1998
Edberg et al.	U.S Patent No. 5,793,381	issued: Aug. 11, 1998
Okada	U.S Patent No. 5,889,481	issued: Mar. 30, 1999
Craft	U.S Patent No. 6,070,179	issued: Mar. 30, 2000
Teare al.	U.S Patent No. 6,151,624	issued: Nov. 21, 2000

Art Unit: 2176

Gonzales et al. U.S Patent No. 6,204,782 issued: Mar. 30, 2001

Davis U.S Patent No. 6,438,516 issued: Aug. 30, 2002

Davis et al., "Unicode", IEEE, 1990, pages 499-504.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maikhanh Nguyen whose telephone number is (703) 306-0092. After mid-October, 2004, the examiner can be reached at (571) 272-4093. The examiner can normally be reached on Monday - Friday from 9:00am – 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H Feild can be reached on (703) 305-9792.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Maikhanh Nguyen September 29, 2004

SUPERVISORY PATENT EXAMINER

Page 8